

## AuroraFlex™ EL 2840B

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

### General Information

#### Product Description

AuroraFlex 2840B is a black thermoplastic elastomer compound formulated for applications that require rubber-like properties and high resilience. AuroraFlex 2840B is well suited for consumer goods and industrial applications requiring UV stability.

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Resilient	• UV Resistant	
Uses	• Consumer Applications	• Industrial Applications	
Appearance	• Black		
Processing Method	• Extrusion	• Injection Molding	

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	164	psi	ASTM D412
Tensile Strength	653	psi	ASTM D412
Tensile Elongation (Break)	430	%	ASTM D412
Tear Strength	148	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	38		ASTM D2240

### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	351	°F
Middle Temperature	370 to 390	°F
Front Temperature	379 to 399	°F
Nozzle Temperature	390 to 399	°F
Processing (Melt) Temp	390 to 399	°F
Mold Temperature	100 to 120	°F
Injection Rate	Slow-Moderate	
Back Pressure	49.3 to 149	psi
Screw Speed	75 to 125	rpm
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	309 to 320	°F
Cylinder Zone 2 Temp.	320 to 340	°F
Cylinder Zone 3 Temp.	340 to 351	°F
Cylinder Zone 4 Temp.	360 to 370	°F
Cylinder Zone 5 Temp.	351 to 360	°F
Die Temperature	320 to 340	°F

